AF07.00-P-9000B	Engine runs rough, surges or does not turn over	29.4.02

ENGINE 611 in MODEL 203, 202, 210
ENGINE 612 in MODEL 163, 203, 210, 209
ENGINE 613 in MODEL 210, 220
ENGINE 628 in MODEL 163, 220, 211
ENGINE 646 in MODEL 203, 211
ENGINE 647 in MODEL 211
ENGINE 648 in MODEL 220, 211
ENGINE 668 in MODEL 168
ENGINE 612, 628 in MODEL 463

Modification notes

23.3.01	Supersedes STIP 07.16-014 dated 11.12.00		

Damage code	Cause	Remedy	
07 206 D5	High-pressure pump	[i] To verify whether high pressure pump is damaged.#	
	[i] High pressure pump of common rail injection system is damaged mechanically.	1 Remove/install/replace high pressure pump.	
	When the high pressure pump of the common rail injection system is damaged metal chips and/or damage to the pump drive (timing drive) can occur due to contamination of the injection system components.	2 Turn high pressure pump by hand with driver.	
		[i] If mechanical resistance can be felt, perform the following tests. Clarify additional work with ESKULAB by specifying repair work: # 3 Check driver of high pressure pump or mount in sprocket for damage (visual check).	
		[i] If high pressure pump is locked:# 4 Check timing	
		5 Check timing drive for damage.	
		[i] In each case:# 6 Remove/install/replace timing chain.	
		[i] If timing deviates by a crankshaft angle of more than 20 degrees (corresponding to one tooth skipped):# 7 Check pressure loss.	
		8 Open low pressure connection on high pressure pump return (plastic line in area of pressure regulator valve) and check connection point in rail for chips.	
		[i] If chips are present when checking injection system:#	
		9 Thoroughly clean all fuel low pressure lines as well as feed and return lines. [i] Flush and blow out with compressed air.	
		10 Remove fuel preheater and fuel filter with filter housing, replace. [i] Fuel preheater is only installed in models 202, 203 and 163.	
		11 Remove/install/replace fuel cooler at vehicle and engine end. [i] Not installed in model 210 up to 6/99 and model 168.	
		12 Remove fuel tank, replace.	
		[i] On engine 628: # 13 Remove/install/replace electric supply pump.	
		14 Remove/install/replace injectors, rail (including pressure regulation valve and rail pressure sensor), high pressure lines and injector leak oil rail.*	

		i Fuel pump (gear pump) and electric shutoff valve can remain on engine.	
		15 Check injection system for leakage.	
		16 Check with HHT/DAS for proper function (check actual value).	
		17 Read DTC memory and erase after checking.	